

FIGURE 1

ctccttgtcc aagtgtccaa ggtccccagc tccntaagtc aggaacaatc cangcaagac	60
gcgatctacc agaacctgac ccagcttaaa gctgcagtgg gtgagctctc agagaaatcc	120
aagctgcagg agatctacca ggagctgacc cagctgaagg ctgcagtggg tgagcttcca	180
gagaaatcna agcagcagga gatctaccag gagctgaccc ggctgaaggc tgcagtgggt	240
gagcttccag agaaatcnaa gctgcaggag atctaccagg agctgaccng gctgaaggct	300
gcagtgggtg agcttccaga gaaatctaag atgcaggaga tctaccagga gctgacncgg	360
ctgaaggctg cagtgggtga gctcccagag aaatctaagc agcaggagat ctaccaggag	420
ctgacccggc tgaaggctgc agtgggtgag ctaccagaga aatctaagca gcaggagatc	480
taccaggagc tgacccggct gaaggctgca gtgggtgagc ttccagataa atccaagcag	540
caggagatct accaggagct gaccagctg aaggctg	577

FIGURE 2 (Page 1 of 4)

Alignment Results

Alignment: Multi-way DNA alignment.

Parameters: Scoring matrix: Linear (Mismatch 2, OpenGap 4, ExtGap 1)

Number of sequences to align: 5

Pos	Sequence	Start	End	Length	Matches	%Matches
1	Chimp_DC-SIGN	1	1212	1212	1203	99
2	Pan troglodytes	1	1212	1212	1203	99
3	huDC-SIGN_CDS	1	1215	1215	1203	99
4	Macaca mulatta_CDS	1	1215	1215	1133	93
5	mu_DC-SIGN.txt	1	1450	1450	670	44

FIGURE 2 (Page 2 of 4)

Alignment Results

Alignment: Multi-way DNA alignment.

Parameters: Scoring matrix: Linear (Mismatch 2, OpenGap 4, ExtGap 1)

Number of sequences to align: 5

Settings: Similarity significance value cutoff: >= 60%

Summary of Percent Matches:

Sequence 1:	Chimp DC-SIGN	1 -	1212	(1212 bps)	99%
Sequence 2:	Pan troglodytes	1 -	1212	(1212 bps)	99%
Sequence 3:	huDC-SIGN CDS	1 -	1215	(1215 bps)	99%
Sequence 4:	Macaca mulatta CDS	1 -	1215	(1215 bps)	93%
Sequence 5:	mu_DC-SIGN.txt	1 -	1450	(1450 bps)	44%

```

Chimp DC-SIG      1 -----
Pan troglody      1 -----
huDC-SIGN CD      1 -----
Macaca mulat      1 -----
mu_DC-SIGN.t      1 gggcactgagaagtggctgtgaaac-----

Chimp DC-SIG      36 -----
Pan troglody      36 -----
huDC-SIGN CD      36 -----
Macaca mulat      36 -----
mu_DC-SIGN.t      61 tgcgctcttggatgaggaactgctgacatccagccacaccaggcactccatcaaaagcctt

Chimp DC-SIG      69 -----
Pan troglody      69 -----
huDC-SIGN CD      69 -----
Macaca mulat      69 -----
mu_DC-SIGN.t      121 tggcttccaaacaaattctggattcagtagacacagggctgctggtccacagtcgaagt

Chimp DC-SIG      125 -----
Pan troglody      125 -----
huDC-SIGN CD      125 -----
Macaca mulat      125 -----
mu_DC-SIGN.t      181 ccopttggcacttgcagggtatccagatgtttgttctgttgcgctgttctcagctt

Chimp DC-SIG      171 -----
Pan troglody      171 -----
huDC-SIGN CD      171 -----
Macaca mulat      171 -----
mu_DC-SIGN.t      241 tgcagaggtcagaaacaaacacagtc-----tcagggaagaaaacaatcagatgaatgt

Chimp DC-SIG      231 -----
Pan troglody      231 -----
huDC-SIGN CD      231 -----
Macaca mulat      231 -----
mu_DC-SIGN.t      295 tgcagaggtcagaaacaaacacagtc-----tcagggaagaaaacaatcagatgaatgt

Chimp DC-SIG      291 -----
Pan troglody      291 -----
huDC-SIGN CD      291 -----
Macaca mulat      291 -----
mu_DC-SIGN.t      339 tgcagaggtcagaaacaaacacagtc-----tcagggaagaaaacaatcagatgaatgt

Chimp DC-SIG      349 -----
Pan troglody      349 -----
huDC-SIGN CD      349 -----
Macaca mulat      349 -----
mu_DC-SIGN.t      392 ---tgcgctcttggatgaggaactgctgacatccagccacaccaggcactccatcaaaagcctt

Chimp DC-SIG      397 -----
Pan troglody      397 -----
huDC-SIGN CD      397 -----
Macaca mulat      397 -----
mu_DC-SIGN.t      449 -caacttgcgctcagaaacaaacacagtc-----tcagggaagaaaacaatcagatgaatgt

```

Chimp DC-SIG	456	gctgaaggcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
Pan troglody	456	gctgaaggcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
huDC-SIGN CD	456	gctgaaggcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
Macaca mulat	456	gctgaaggcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
mu_DC-SIGN.t	506	aagagagggtacacttggtggtgggtcattgacat---gagcaaggag-tctacatggt				
<hr/>						
Chimp DC-SIG	516	gctgaaggcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
Pan troglody	516	gctgaaggcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
huDC-SIGN CD	516	gctgaaggcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
Macaca mulat	516	gctgaaggcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
mu_DC-SIGN.t	561	atcggtgagatggttcaactctgactctcagtttcatgaagtattggagta-aaggagata				
<hr/>						
Chimp DC-SIG	576	c-taaga-----gtagctga-----cccggtggaaggctgcagtggg---				
Pan troglody	576	c-taaga-----gtagctga-----cccggtggaaggctgcagtggg---				
huDC-SIGN CD	576	c-taaga-----gtagctga-----cccggtggaaggctgcagtggg---				
Macaca mulat	576	c-taaga-----gtagctga-----cccggtggaaggctgcagtggg---				
mu_DC-SIGN.t	620	ctgaaglacctggagaggaagactgtgcagagtttagagatgacggctggaatgacacc				
<hr/>						
Chimp DC-SIG	612	-----gtagctga-----gtagctga-----gtagctga-----gtagctga-----				
Pan troglody	612	-----gtagctga-----gtagctga-----gtagctga-----gtagctga-----				
huDC-SIGN CD	612	-----gtagctga-----gtagctga-----gtagctga-----gtagctga-----				
Macaca mulat	612	-----gtagctga-----gtagctga-----gtagctga-----gtagctga-----				
mu_DC-SIGN.t	680	aaaatgtaggaagagaaatttaggatetgcaaaagctttcaacttcctgccctagcaag				
<hr/>						
Chimp DC-SIG	665	tgaaggc-----tgcagtgggtgagcttccagagaaatctaagcagcaggagatct-				
Pan troglody	665	tgaaggc-----tgcagtgggtgagcttccagagaaatctaagcagcaggagatct-				
huDC-SIGN CD	665	tgaaggc-----tgcagtgggtgagcttccagagaaatctaagcagcaggagatct-				
Macaca mulat	665	tgaaggc-----tgcagtgggtgagcttccagagaaatctaagcagcaggagatct-				
mu_DC-SIGN.t	740	tgatggccaactccctgcacctcccacagtcaccaaaccttgccaatggcagaactt				
<hr/>						
Chimp DC-SIG	716	-accaggagctgagccagctgaaggctgcagtcgggaagctgctggaggcggggcggg---				
Pan troglody	716	-accaggagctgagccagctgaaggctgcagtcgggaagctgctggaggcggggcggg---				
huDC-SIGN CD	716	-accaggagctgagccagctgaaggctgcagtcgggaagctgctggaggcggggcggg---				
Macaca mulat	716	-accaggagctgagccagctgaaggctgcagtcgggaagctgctggaggcggggcggg---				
mu_DC-SIGN.t	800	taccatagcttatgccagttttactactgtctgtgacctgataaccttgacaagat				
<hr/>						
Chimp DC-SIG	771	ctgggaatggacattcttccaaggaaactgttacttcatgtotaaetcccagcggaactg				
Pan troglody	771	ctgggaatggacattcttccaaggaaactgttacttcatgtotaaetcccagcggaactg				
huDC-SIGN CD	771	ctgggaatggacattcttccaaggaaactgttacttcatgtotaaetcccagcggaactg				
Macaca mulat	771	ctgggaatggacattcttccaaggaaactgttacttcatgtotaaetcccagcggaactg				
mu_DC-SIGN.t	860	ggtataggacttttggggggtgtgctgtt---cccccaactgcaactg---tgttca				
<hr/>						
Chimp DC-SIG	831	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
Pan troglody	831	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
huDC-SIGN CD	831	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
Macaca mulat	831	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
mu_DC-SIGN.t	914	gtttgtgtctggtggtattaatgtatagtcctctgatgtctgcaggttctctttgggtta				
<hr/>						
Chimp DC-SIG	856	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
Pan troglody	856	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
huDC-SIGN CD	856	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
Macaca mulat	856	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
mu_DC-SIGN.t	974	gtggt				
<hr/>						
Chimp DC-SIG	900	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
Pan troglody	900	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
huDC-SIGN CD	900	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
Macaca mulat	900	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
mu_DC-SIGN.t	1034	tgaaagggttgcgttcttcttcttcttcttcttcttcttcttcttcttcttcttctt				
<hr/>						
Chimp DC-SIG	942	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
Pan troglody	942	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
huDC-SIGN CD	942	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
Macaca mulat	942	gtagcgtgcagtcgggtgagcttccagagaaatctaagatgcaggagatctaccagga				
mu_DC-SIGN.t	1094	gtgchatttatccggtatccca---ccctac-ttaaattttatcacctaacctgac				

Species	Position	Sequence
Chimp DC-SIG	1002	ccacacagatattggaaagag-aggaga
Pan troglody	1002	ccacacagatattggaaagag-aggaga
huDC-SIGN CD	1002	ccacacagatattggaaagag-aggaga
Macaca mulat	1002	ccacacagatattggaaagag-aggaga
mu_DC-SIGN.t	1151	cbtttttatgggacgcttcttgatttcaggagctcacccatatagactaaaagcacaga
Chimp DC-SIG	1041	gcccaacaaacgtttggggagggaagactgcgcggaattttagtg-ccatggctgga
Pan troglody	1041	gcccaacaaacgtttggggagggaagactgcgcggaattttagtg-ccatggctgga
huDC-SIGN CD	1041	gcccaacaaacgtttggggagggaagactgcgcggaattttagtg-ccatggctgga
Macaca mulat	1041	gcccaacaaacgtttggggagggaagactgcgcggaattttagtg-ccatggctgga
mu_DC-SIGN.t	1211	gagccaatttcttaactatttagtcattatagaaattattgtgttaatttctgaacc
Chimp DC-SIG	1094	atgacgga-aaatggaat-cttgccaaattct
Pan troglody	1094	atgacgga-aaatggaat-cttgccaaattct
huDC-SIGN CD	1094	atgacgga-aaatggaat-cttgccaaattct
Macaca mulat	1094	atgacgga-aaatggaat-cttgccaaattct
mu_DC-SIGN.t	1271	tgtctaccctgggtgggaatggtgagcctcaattgttatagaactcgaanntttttgg
Chimp DC-SIG	1124	ggatattgcaa-aaagtcgga-gecbggttga-aggaggaatgaa
Pan troglody	1124	ggatattgcaa-aaagtcgga-gecbggttga-aggaggaatgaa
huDC-SIGN CD	1124	ggatattgcaa-aaagtcgga-gecbggttga-aggaggaatgaa
Macaca mulat	1124	ggatattgcaa-aaagtcgga-gecbggttga-aggaggaatgaa
mu_DC-SIGN.t	1331	ggatattgcaatttttattgactcattcattacaattgtatagatatgtattgtacaa
Chimp DC-SIG	1166	aaaggaatttctcagagc-aaacaccc-aaacacccctctctgctag
Pan troglody	1166	aaaggaatttctcagagc-aaacaccc-aaacacccctctctgctag
huDC-SIGN CD	1166	aaaggaatttctcagagc-aaacaccc-aaacacccctctctgctag
Macaca mulat	1166	aaaggaatttctcagagc-aaacaccc-aaacacccctctctgctag
mu DC-SIGN.t	1391	ataagtataaataaaccatttttatttttgcactctccaaaaa

FIGURE 3 (PAGE 1 OF 2)

putative boDC-SIGN	-----LLV----
Chimp_DC-SIGN	MSDSKEPRLOQLGLEEEQLRGLFRQNRGYKSLAGCLGHGPLVLQLLSFTLLAGLLV----
huDC-SIGN_CDS	MSDSKEPRLOQLGLEEEQLRGLFRQTRGYKSLAGCLGHGPLVLQLLSFTLLAGLLV----
Macaca mulatta_CDS	MSDSKEPRLOQLDLEEEQLGGVGFRTQTRGYKSLAGCLGHGPLVLQLLSFTLLAGLLV----
putative boDC-SIGN	-----QVSKVPSS*SQE--QS*QDAIYQNL-----
Chimp_DC-SIGN	-----QVSKVPSSISQE--ESRQDVIYQNL-----
huDC-SIGN_CDS	-----QVSKVPSSISQE--QSRQDAIYQNL-----
Macaca mulatta_CDS	-----QVSKVPSSISQG--QSKQDAIYQNL-----
putative boDC-SIGN	-----TQLKAAVG-----ELSEKSKLQEIYQE-----LTQLKAAVGELPEK*--
Chimp_DC-SIGN	-----TQLKAAVG-----ELSEKSKLQEIYQE-----LTQLKAAVGELPEKS--
huDC-SIGN_CDS	-----TQLKAAVG-----ELSEKSKLQEIYQE-----LTQLKAAVGELPEKS--
Macaca mulatta_CDS	-----TQLKVAVS-----ELSEKSKQQEIYQE-----LTRLKAAVDELPEKS--
putative boDC-SIGN	-----KQEIYQEL-----
Chimp_DC-SIGN	-----KQEIYQEL-----
huDC-SIGN_CDS	-----KLQEIYQEL-----
Macaca mulatta_CDS	-----KQEIYQEL-----
putative boDC-SIGN	-----EY-QELT*LKAAVGELP-----
Chimp_DC-SIGN	-----EY-QELTRLKAAVGELP-----
huDC-SIGN_CDS	-----EY-QELTWLKAAVGELP-----
Macaca mulatta_CDS	-----EY-QELTWLKAAVGELP-----
putative boDC-SIGN	-----EKSKMQEIYQEL*R-LKAAVGE*P-----
Chimp_DC-SIGN	-----EKSKMQEIYQELTR-LKAAVGELP-----
huDC-SIGN_CDS	-----EKSKMQEIYQELTR-LKAAVGELP-----
Macaca mulatta_CDS	-----EKSKMQEIYQELSR-LKAAVGDLDP-----

FIGURE 3 (PAGE 2 OF 2)

putative boDC-SIGN	EKSKQOE-----IYQELTR-----
Chimp_DC-SIGN	EKSKQOE-----IYQELTR-----
huDC-SIGN_CDS	EKSKQOE-----IYQELTR-----
Macaca mulatta_CDS	EKSKQOE-----IYQELTR-----
putative boDC-SIGN	LKAAVGE*PEKS-----KQEIYQELT*LKAAVGELP***--KQOE-----
Chimp_DC-SIGN	LKAAVGELPEKS-----KQEIYQELTRLKAAVGELP-----EKSKQOE-----
huDC-SIGN_CDS	LKAAVGELPEKS-----KQEIYQELTRLKAAVGELP-----EKSKQOE-----
Macaca mulatta_CDS	LKAAVGDLPEKS-----KQEIYQKLTLKAAVDGLP-----DRSKQOE-----
putative boDC-SIGN	-----IYQELTQLKA-----
Chimp_DC-SIGN	-----IYQELTQLKAAVERLCRRCPW-----
huDC-SIGN_CDS	-----IYQELTQLKAAVERLCHPCPW-----
Macaca mulatta_CDS	-----IYQELIQLKAAVERLCHPCPW-----
putative boDC-SIGN	-----
Chimp_DC-SIGN	EWTFQNCYFMSNSQRNWHDSITACKEVGAQLVVIKSAEEQNFLQLQSSRSNRFTWMGL
huDC-SIGN_CDS	EWTFQNCYFMSNSQRNWHDSITACKEVGAQLVVIKSAEEQNFLQLQSSRSNRFTWMGL
Macaca mulatta_CDS	EWTFQNCYFMSNSQRNWHDSITACQEVGAQLVVIKSAEEQNFLQLQSSRSNRFTWMGL
putative boDC-SIGN	-----
Chimp_DC-SIGN	SDLNEEGTWQVVDGSPLLPSFNQYWNRGEPNNVGEEDCAEFSGNGWDDKCNLAKFWICK
huDC-SIGN_CDS	SDLNQEGTWQVVDGSPLLPSFKQYWNRGEPNNVGEEDCAEFSGNGWDDKCNLAKFWICK
Macaca mulatta_CDS	SDLNHEGTWQVVDGSPLLPSFKQYWNKGEPNNIGEEDCAEFSGNGWDDKCNLAKFWICK
putative boDC-SIGN	-----
Chimp_DC-SIGN	KSAASCSRDEEQFLSPAPATPNPPPA-
huDC-SIGN_CDS	KSAASCSRDEEQFLSPAPATPNPPPA*
Macaca mulatta_CDS	KSAASCSGDEERLLSPAPTTPNPPPA*

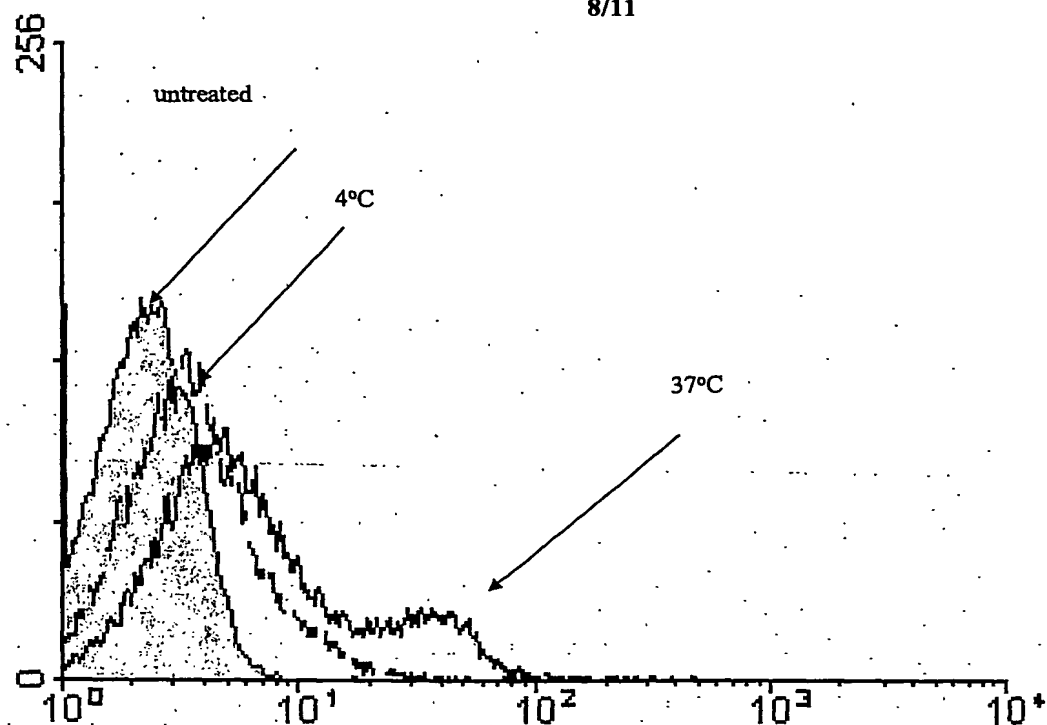


Fig. 4: Binding of HIV gp120-FITC to bovine DC. Cells were either left untreated or incubated at 4C or 37C with gp120-FITC for 60min and analysed by flow cytometry.

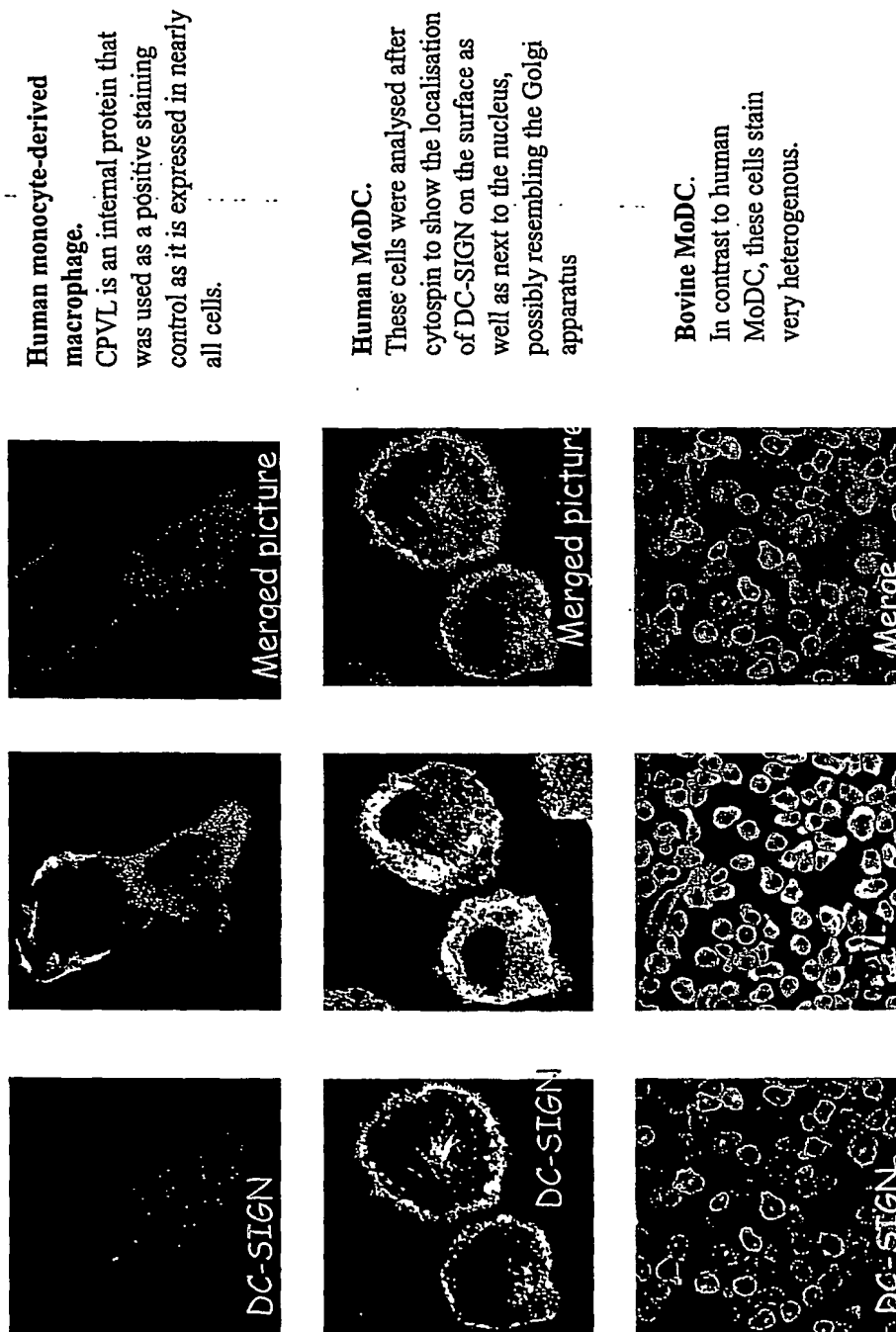


Figure 5: Staining pattern of human monocyte-derived macrophages, human monocyte-derived dendritic cells and bovine monocyte-derived dendritic cells with a polyclonal antibody raised against the human DC-SIGN molecule.

FIGURE 6

gagatgtatg aacacaagga gccagatgac tctgaggagg agacatttgg gggccagaga	60
ctggctgaga gacaccctcg accactacac agtttgagga gcttgtcaga gtgtctgacc	120
tggggccctc tgettctcct gctgctcctc ttcgtctcac tgggcttctt cacgctccag	180
ctgaccactc tggttcaagt ttccaggatc cagtgtctgc agagagattc gggagaccgt	240
gagaacaaca gcctggataa gtggtggac accaggttcc ggagtctgac tgaagttgca	300
gagaagcaga tgcaatcaaa cctggagaag atcctacagc gcctgaccg gatgaatgcc	360
accctggctg gcctgtgcca tccttgctct cagaattggg agtttttcga tggagctgc	420
tacttcttct cctggaccca gactgactgg agatctgccg tctctgcctg tctgcttatt	480
ggggcccacc tagttatcat cgagagtact gaggaggaga aattcctgaa cttttggtat	540
cccagaaata ataaaccac ctggatcggc ctgagtacc accacagtga gggttcctgg	600
cggtgggtgg atgacagtcc tgtccaactc agcttctgga aaaaagggga gcccaacaac	660
cacggagatg aggactgtgt ggaactgcac aacgatggct ggaatgatgg cagatgtgtt	720
acagaaaacc cctggatctg tgagaagccc tcg	753

05 Jul 2004

Alignment Results

Alignment: Global Protein alignment against reference molecule
Parameters: Scoring matrix: BLOSUM 62

Reference molecule: NM 021155 AA, Region 1-407
Number of sequences to align: 4
Settings: Similarity significance value cutoff: >= 50%

Summary of Percent Matches:

Reference:	NM 021155 AA	1 -	407	(407 aa)	--
Sequence 2:	muDC-SIGN AA	1 -	238	(238 aa)	32%
Sequence 3:	boDC-SIGN variant 1 AA	1 -	251	(251 aa)	26%
Sequence 4:	boDC-SIGN variant 2 AA	1 -	192	(192 aa)	43%

NM 021155 AA	1	wgmdsdskeprlqqlglleeeql	-----	rglgrfgrtrykslagcglghg	--	plvlqlleft	-----	llagllqvskvpssisqeqs
muDC-SIGN AA	1	---msdskskengkrqlrpldeelltssthrhsikgfgqtnsgfssftgclvhsqvpalalgvflavcsvllvvlvkvkkipss	-----				-----	
boDC-SIGN va	1	---emeyehkepdseeetfgqrl	-----	aerhprlshrsisecltwg	--	plllllllfv	-----	slgfftllqlt
boDC-SIGN va	1		-----				-----	llvqvskvpss?sqeqs
NM 021155 AA	76	rqdaiyqnlqlkaavgelsekklqeiylqeltqlkaavgelpek	-----	sklqeiylqeltqlkaavgelpek	-----	sklqeiylqeltqlkaavgelpek	-----	
muDC-SIGN AA	82		-----				-----	
boDC-SIGN va	63		-----	tlvqvsvriqclqrd	-----	sgdr-enmsldk	-----	wld
boDC-SIGN va	18	?qdaiyqnlqlkaavgelsekklqeiylqeltqlkaavgelpek	-----	?kqeiylqeltqlkaavgelpek	-----	?kqeiylqeltqlkaavgelpek	-----	
NM 021155 AA	166	kskmqeiylqeltqlkaavgelpek	-----	kskmqeiylqeltqlkaavgelpek	-----	kskmqeiylqeltqlkaavgelpek	-----	
muDC-SIGN AA	82		-----				-----	
boDC-SIGN va	91		-----	frslt	-----	evaeekgmq	-----	qeen
boDC-SIGN va	108	kskmqeiylqeltqlkaavgelpek	-----	kskmqeiylqeltqlkaavgelpek	-----	kskmqeiylqeltqlkaavgelpek	-----	
NM 021155 AA	253	erlchpcpewtffqgncyfmsnsgqrnwhdsitackevgaqlvikaeeqnfqlqssrsnrftwmglndlnqegtwwvdgspllpsf	-----				-----	
muDC-SIGN AA	102	drlcrscpwwthfqqscyfssvvaqskwndsatachnvgaqlvikaeeqnfqlqssrsnrftwmglndlnqegtwwvdgspllpsf	-----				-----	
boDC-SIGN va	123	aglhpcpqnweffdgscyfssvvaqskwndsatachnvgaqlvikaeeqnfqlqssrsnrftwmglndlnqegtwwvdgspllpsf	-----				-----	
boDC-SIGN va	193		-----				-----	
NM 021155 AA	343	kqymnrgpnnvgeedcaefsgngwnddkcnlakfwlckksaascrsdeeqflspapatpnpnpa	-----				-----	
muDC-SIGN AA	191	mkyskgepnnglgeedcaefrdgndtktcnkkfwlcklsts	-----				-----	psk
boDC-SIGN va	213	---wkkgpnnhgdedcvelhndgwndgrovtenpwickps	-----				-----	
boDC-SIGN va	193		-----				-----	

FIGURE 7